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*URANUS.*

1897.	R. A. H. M.	Declination. °	Rises. H. M.	Transits. H. M.	Sets. H. M.
Aug. 1.	15 30	— 18 49	1 55 P.M.	6 48 P.M.	11 41 P.M.
11.	15 31	— 18 50	1 16	6 9	11 2
21.	15 31	— 18 52	12 37	5 30	10 23
31.	15 32	— 18 55	11 59 A.M.	4 52	9 45

*NEPTUNE.*

Aug. 1.	5 24	+ 21 52	1 25 A.M.	8 43 A.M.	4 1 P.M.
11.	5 25	+ 21 52	12 47	8 5	3 23
21.	5 26	+ 21 53	12 9	7 27	2 45
31.	5 27	+ 21 53	11 30 P.M.	6 48	2 6

MINIMA OF *ALGOL*, P. S. T.

	H. M.		H. M.
Aug. 1.	11 43 A. M.	Aug. 18.	4 36 P. M.
4.	8 32 A. M.	21.	1 25 P. M.
7.	5 21 A. M.	24.	10 14 A. M.
10.	2 9 A. M.	27.	7 3 A. M.
12.	10 58 P. M.	30.	3 52 A. M.
15.	7 47 P. M.		

DOUBLE-STAR MEASURES.

By D. A. LEHMAN.

The following measures were made with the 12-inch equatorial of the Lick Observatory. The position angle is the mean of four settings, and the distance that of three double-distances. The position of the stars is given for 1880.0. In estimating seeing, a scale is used on which 5 stands for the most favorable conditions. The eyepiece used in most of the measures has a power of 500 diameters; but some of the measures were made with lower powers.

Σ 1788. (6.7-8).

R. A. 13<sup>h</sup> 48<sup>m</sup> 43<sup>s</sup>. Decl. — 7° 28'.

	$\theta_0$	$\rho_0$	Seeing.
1897.460	73°.9	3".37	3.
1897.465	76 .1	2 .98	3+
1897.477	75 .2	3 .62	4
1897.492	77 .5	3 .23	4
1897.47	75°.7	3".30	

*Publications of the* $\Sigma$  1930. (5-10).R. A.  $15^h 13^m 11^s$ . Decl.  $+ 2^\circ 13'$ .

	$\theta_0$	$\rho_0$	Seeing,
1897.460	$38^\circ.7$	$11''.35$	3
1897.492	$37.6$	$11.04$	4
1897.494	$37.5$	$10.57$	4
1897.48	$37^\circ.9$	$10''.99$	

 $\Sigma$  2021 (49 *Serpentis*). (6-7).R. A.  $16^h 7^m 43^s$ . Decl.  $+ 13^\circ 48'$ .

	$\theta_0$	$\rho_0$	Seeing.
1897.460	$332^\circ.9$	$3''.97$	3
1897.492	$333.9$	$4.27$	4
1897.514	$335.7$	$4.29$	3
1897.49	$334^\circ.1$	$4''.18$	

Sh. 228 ( $\rho$  *Ophiuchi*). (5-7).R. A.  $16^h 18^m 23^s$ . Decl.  $- 23^\circ 10'$ .

	$\theta_0$	$\rho_0$	Seeing.
1897.508	$354^\circ.6$	$3''.60$	3
1897.516	$354.4$	$3.59$	4
1897.519	$353.1$	$3.12$	4
1897.51	$354^\circ.0$	$3''.44$	

 $\Sigma$  2055 ( $\lambda$  *Ophiuchi*). (4-6).R. A.  $16^h 24^m 52^s$ . Decl.  $+ 2^\circ 15'$ .

	$\theta_0$	$\rho_0$	Seeing.
1897.522	$53^\circ.3$	$1''.69$	4
1897.525	$52.8$	$1.63$	4
1897.52	$53^\circ.0$	$1''.66$	

 $\Sigma$  3127 ( $\delta$  *Herculis*). (3-8).R. A.  $17^h 10^m 6^s$ . Decl.  $+ 24^\circ 59'$ .

	$\theta_0$	$\rho_0$	Seeing.
1897.514	$189^\circ.3$	$14''.93$	3
1897.519	$190.1$	$15.10$	4
1897.522	$190.2$	$15.17$	4
1897.52	$189^\circ.9$	$15''.07$	

$\beta$  416. (6-8).

R. A.  $17^h 10^m 46^s$ . Decl.  $-34^\circ 51'$ .

	$\theta_o$	$\rho_o$	Seeing.
1897.508	$310^\circ.6$	$1''.90$	4
1897.519	$311.0$	$1.77$	4
1897.522	$309.2$	$1.88$	4
1897.525	$309.8$	$1.89$	4
<hr/>	<hr/>	<hr/>	
1897.52	$310^\circ.2$	$1''.86$	

$\Sigma$  2262 ( $\tau$  *Ophiuchi*). (5-5.7).

R. A.  $17^h 56^m 33^s$ . Decl.  $-8^\circ 11'$ .

	$\theta_o$	$\rho_o$	Seeing.
1897.508	$259^\circ.1$	$2''.21$	3
1897.514	$256.0$	$2.15$	3
1897.525	$258.2$	$1.88$	4
<hr/>	<hr/>	<hr/>	
1897.52	$257^\circ.8$	$2''.08$	

$\Sigma$  2272 ( $\gamma$  *Ophiuchi*). (4-6).

R. A.  $17^h 59^m 23^s$ . Decl.  $+2^\circ 33'$ .

	$\theta_o$	$\rho_o$	Seeing.
1897.476	$286^\circ.2$	$2''.74$	3
1897.492	$280.7$	$1.91$	4
1897.508	$283.9$	$2.60$	4
<hr/>	<hr/>	<hr/>	
1897.49	$283^\circ.6$	$2''.42$	

( $\gamma$  *Coronæ Australis*). ( $5\frac{1}{2}$ - $5\frac{1}{2}$ ).

R. A.  $18^h 58^m 18^s$ . Decl.  $-37^\circ 14'$ .

	$\theta_o$	$\rho_o$	Seeing.
1897.508	$158^\circ.6$	$2''.12$	4
1897.525	$155.0$	$1.79$	4
<hr/>	<hr/>	<hr/>	
1897.52	$156^\circ.8$	$1''.95$	

$\Sigma$  2579 ( $\delta$  *Cygni*). (3-8).

R. A.  $19^h 41^m 13^s$ . Decl.  $+44^\circ 50'$ .

	$\theta_o$	$\rho_o$	Seeing.
1897.508	$301^\circ.2$	$2''.25$	4
1897.511	$300.1$	$1.72$	1+
1897.525	$305.1$	$1.77$	4
<hr/>	<hr/>	<hr/>	
1897.52	$302^\circ.1$	$1''.91$	

*Publications of the* $\Sigma$  2583. (6-6.8).R. A.  $19^h 43^m 3^s$ . Decl. +  $11^\circ 31'$ .

	$\theta_o$	$\rho_o$	Seeing.
1897.508	$115^\circ.0$	$1''.90$	4
1897.525	$113.2$	$1.53$	4
1897.52	$114^\circ.1$	$1''.72$	

 $\beta$  151 ( $\beta$  *Delphini*). ( $3\frac{1}{2}$ - $4\frac{1}{2}$ ).R. A.  $20^h 31^m 55^s$ . Decl. +  $14^\circ 11'$ .

	$\theta_o$	$\rho_o$	Seeing.
1897.511	$359^\circ.9$	$0''.75$	3
1897.525	$355.2$	$.93$	3
1897.52	$357^\circ.6$	$0''.84$	

LICK OBSERVATORY, July 10, 1897.